INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/28021

		101/0304/28021				
A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : A61K 31/4745, 31/5377; C07D 471/04, 413/14 US CL : 514/293, 232.8; 546/82; 544/126 According to International Patent Classification (IPC) or to both national classification and IPC						
	DS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) U.S.: 514/293, 232.8; 546/82; 544/126						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic d STN STRUC	ata base consulted during the international search (name CTURE SEARCH, FILE CAPLUS	of data base and, where practicable, search terms used)				
C. DOC	CUMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where a	opropriate, of the relevant passages Relevant to claim No.				
A	US 4,698,348 (GERSTER, J.F) 06 October 1987 (06					
Furthe	r documents are listed in the continuation of Box C.	See patent family annex.				
*	Special categories of cited documents:	"T" later document published after the international filing date or priority				
	nt defining the general state of the art which is not considered to be of ar relevance	date and not in conflict with the application but cited to understand the principle or theory underlying the invention				
	pplication or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone				
	nt which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as i)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination				
"O" documer	nt referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the art				
	nt published prior to the international filing date but later than the date claimed	"&" document member of the same patent family				
	actual completion of the international search	Date of mailing of the international search report 03 FEB 2005				
Nome == 1	r 2004 (10.12.2004)					
Ma Co P.C Ale	ailing address of the ISA/US ail Stop PCT, Attn: ISA/US amnissioner for Patents D. Box 1450 exandria, Virginia 22313-1450 D. (703) 305-3230	Authorized officer Cecilia Tsang Telephone No. (703)308-1235				

Form PCT/ISA/210 (second sheet) (January 2004)

PATENT COOPERATION TREATY

2005

From the INTERNATIONAL SEARCHING AUT	HORITY		22 I	
To: DEAN A. ERSFELD OFFICE OF INTELLECTUAL PROPI		PCT	REC'D 0 7 FEB 200	
POST OFFICE BOX 33427	ERTY COUNSEL	337		WIPO PCT
SAINT PAUL, MN 55133-3427			RITTEN OPINION OF ONAL SEARCHING A	
			(PCT Rule 43bis.1)	
		Date of mailing (day/month/year)	03 FEB 200	5
Applicant's or agent's file reference		FOR FURTHER	ACTION See paragraph 2 below	
58914WO009				
International application No.	International filing date	(day/month/year)	Priority date (day/month/	year)
PCT/US04/28021 International Patent Classification (IPC	27 August 2004 (27.08.	2004)	27 August 2003 (27.08.20	003)
IPC(7): A61K 31/4745, 31/5377; C071 Applicant	O 471/04, 413/14 and US C	l.: 514/293, 232.8 ; 5 ²	46/82 ; 544/126	
3M INNOVATIVE PROPERTIES CO	MD A NISZ			
JW HVNO VATIVE PROPERTIES CO	WPANI			
1. This opinion contains indications r	elating to the following iten	ms:		
Box No. I Basis of t	he opinion			
Box No. II Priority				
Box No. III Non-estab	olishment of opinion with re	egard to novelty, inve	ntive step and industrial app	olicability
Box No. IV Lack of u	nity of invention			
Box No. V Reasoned applicabil	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
Box No. VI Certain de	ocuments cited			
Box No. VII Certain de	efects in the international ap	pplication		
Box No. VIII Certain of	oservations on the internation	onal application		
2. FURTHER ACTION				
If a demand for international prel International Preliminary Examin Authority other than this one to be that written opinions of this Interna	ing Authority ("IPEA") enter the IPEA and the chosen	xcept that this does IPEA has notified the	not apply where the app ne International Bureau und	licant chooses an
If this opinion is, as provided abo IPEA a written reply together, who of Form PCT/ISA/220 or before the	ere appropriate, with amend	dments, before the ex	piration of 3 months from t	d to submit to the he date of mailing
For further options, see Form PCT				
3. For further details, see notes to For	m PCT/ISA/220.			
Name and mailing address of the ISA/ I	IS	Authorized office	r - 1 1 1	,
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450	Cecilia Tsang	" Janual Shre	M miss	
Alexandria, Virginia 22313-1450	Telephone No. (7	703)308-1235		

Facsimile No. (703) 305-3230 Form PCT/ISA/237 (cover sheet) (January 2004)

Box No. I Basis of this opinion

International application No.

PCT/US04/28021

L	This opinion has been established on the basis of a translation from the original language into the following language _ which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With inven	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the clation, this opinion has been established on the basis of:
a.	type of material
	a sequence listing
	table(s) related to the sequence listing
b.	format of material
	in written format
	in computer readable form
c.	time of filing/furnishing
	contained in international application as filed.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been or furnished, the required statements that the information in the subsequent or additional copies is identical to that application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additi	ional comments:

International application No. PCT/US04/28021

Claims NONE	Statement			
Inventive step (IS) Claims 1-54	Novelty (N)	Claims 1-54		YE
Industrial applicability (IA) Claims Claims Claims Claims Claims NONE NONE Claims NONE Claims NONE Claims NONE Claims NONE NONE	2 . ,			
Industrial applicability (IA) Claims Claims Claims Claims Claims NONE NONE Claims NONE Claims NONE Claims NONE Claims NONE NONE	Inventive sten (IS)	Claima 1.54		ME
Industrial applicability (IA) Claims 1-54 Claims NONE Citations and explanations: ims 1-54 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the instant pounds of formulae I, II, III, VII, IX and XI, pharmaceutical compositions containing these compounds and a method of using appounds. ims 1-54 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed and or used in industry.	inventive step (18)			
Citations and explanations: ims 1-54 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the instant apounds of formulae I, II, III, VII, IX and XI, pharmaceutical compositions containing these compounds and a method of using appounds. ims 1-54 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed and or used in industry.		Olamb HOME		110
Citations and explanations: ims 1-54 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the instant instant appoints of formulae I, III, VII, IX and XI, pharmaceutical compositions containing these compounds and a method of using appoints. ims 1-54 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed or used in industry.	Industrial applicability (IA)	Claims 1-54		YE
ims 1-54 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the instant apounds of formulae I, II, III, VII, IX and XI, pharmaceutical compositions containing these compounds and a method of using apounds. ims 1-54 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed and or used in industry.		Claims NONE		NC
ims 1-54 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the instant apounds of formulae I, II, III, VII, IX and XI, pharmaceutical compositions containing these compounds and a method of using apounds. ims 1-54 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed and or used in industry.	Citations and explanations:			
apounds of formulae I, II, III, VII, IX and XI, pharmaceutical compositions containing these compounds and a method of using apounds. In 1-54 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed and or used in industry.	•	22/2) (2) hassured the major and	daan wat tanah ay falulu waxay	at the a fine at a material
ims 1-54 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed nade or used in industry.	npounds of formulae I, II, III, VII, IX and XI, pl	armaceutical compositions conta	does not teach or fairly suggestaining these compounds and a	st the instant method of using th
nade or used in industry.	npounds.			
nade or used in industry.				
	ims 1-54 meet the criteria set out in PCT Article made or used in industry.	33(4), and thus have industrial a	applicability because the subje	ect matter claimed of
	made of about it industry.			

Form PCT/ISA/237 (Box No. V) (January 2004)

PATENT COOPERATION TREATY

2005

	INTERNAT	ΓΙΟΝΑL SEARC	HING AUTH	ORITY					
	To: DEAN A. ERSFELD OFFICE OF INTELLECTUAL PROPERTY COUNSEL POST OFFICE BOX 33427 SAINT PAUL, MN 55133-3427			PCT	REC'D 07 FE	EB 200			
			RTY COUNSEL	1 4411			PCT		
				WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY					
						(PCT Rule 43bis.1)			
			· · · · · · · · · · · · · · · · · · ·		Date of mailing (day/month/year)	03 FEB 2005)		
	Applicant	's or agent's file r	reference		FOR FURTHER	ACTION See paragraph 2 below			
	58914WC			1.7					
		nal application No	0.	International filing date	(day/month/year)	Priority date (day/month/y	vear)		
	PCT/USO- Internation		ication (IPC)	27 August 2004 (27.08.2 or both national classificat	2004) ion and IPC	27 August 2003 (27.08.20	003)	_	
				471/04, 413/14 and US Cl		16/00 . EAA/106			
	Applicant	0111-011-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	3377, COTD	471704, 413714 and O3 C1	314/293, 232.8 ; 34	10/82; 344/120		\dashv	
	3M INNO	VATIVE PROPE	ERTIES COM	PANY		W			
	1. This	opinion contains i	indications rel	ating to the following item	s:				
		Box No. I	Basis of the	e opinion					
		Box No. II	Priority						
		Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
		Box No. IV	Lack of unity of invention						
à	\boxtimes	Box No. V	Reasoned s	tatement under Rule 43 <i>bis</i> y; citations and explanation	.1(a)(i) with regard to ns supporting such st	o novelty, inventive step or i	ndustrial		
ŀ		Box No. VI	Certain doc	uments cited					
		Box No. VII	Certain def	ects in the international app	plication				
		Box No. VIII	Certain obs	ervations on the internation	nal application				
	1	FURTHER ACTION							
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.					4				
	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.								
	3. For fu	arther details, see	notes to Form	PCT/ISA/220.					
		mailing address o		3	Authorized office	Janual Short	tum ki	\dashv	
	Mail Stop PCT, Attn: ISA/US Commissioner for Patents			Cecilia Tsang	T	P			
	P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230			Telephone No. (7	703)308-1235				
	Tuesdimite via (vis) 505-5250 Form PCT/IS A/237 (cover sheet) (January 2004)								

International application No.

PCT/US04/28021 Box No. I Basis of this opinion 1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)). 2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: type of material a sequence listing table(s) related to the sequence listing format of material in written format in computer readable form time of filing/furnishing contained in international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. 4. Additional comments:

International application No. PCT/US04/28021

applicability; citations and explanations supporting such statement				
1. Statement				
Novelty (N)	Claims 1-54	YES		
	Claims NONE	NO		
Inventive sten (IS)	Claims 1.54	VEC		

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial

Industrial applicability (IA)

 Claims
 1-54
 YES

 Claims
 NONE
 NO

NO

Claims NONE

2. Citations and explanations:

Claims 1-54 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the instant compounds of formulae I, II, III, VII, IX and XI, pharmaceutical compositions containing these compounds and a method of using the compounds.

Claims 1-54 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

Form PCT/ISA/237 (Box No. V) (January 2004)